

**Claims**

- 1) Filling valve for the aseptic filling of alimentary liquids **characterized by the fact** that the product stream flowing from the valve, in the area near the filling mouth of the container underneath, is isolated from the atmosphere by means of a coaxial flow of aseptic and/or inert gas fed by an auxiliary circuit surrounding the outlet conduit of the flowing product.
- 2) Filling valve for the aseptic filling of alimentary liquids, as in claim 1, **characterized by the fact** that the continuous outflow of sterile and/or inert gas by the filling mouth reduces the presence of oxygen in the top part of the container.
- 3) Filling valve for the aseptic filling of alimentary liquids, as in claims 1 and 2, **characterized by the fact** that the continuous outflow of sterile and/or inert gas maintains the aseptic conditions of the outflow mouth also when the filling valve is closed.
- 4) Filling valves for the aseptic filling of alimentary liquids, as in claims 1, 2 and 3, **characterized by the fact** that the same auxiliary circuit, which, during the filling operations, is fed by a flow of sterile and/or inert gas to assure the aseptic conditions of the filling process, is also used for the re-circulation of a sanitizing fluid fed by the same main circuit of the filling valve.
- 5) Filling valve for the aseptic filling of alimentary liquids, as in the previous claims, **characterized by the fact** that during the sanitation of the filling plant the outflow mouth of the valve is closed by a lid placed as a dummy bottle in cooperation with a sliding manifold specifically located on the body of the filling valve.